(b) substantially separating the first support and bound target polynucleotide from the sample;

(c) amplifying the [sample] target polynucleotide with a DNA polymerase;

(d) contacting the amplified target polynucleotide with a second support which binds to the amplified target polynucleotide and also with a labeled probe which binds to the amplified target polynucleotide; and

(e) detecting the presence of the amplified target polynucleotide.

To the 40 claims that issued in the '338 patent, please add new claims 41-59 as follows:

41. The method for amplifying a target polynucleotide of claim 1 wherein the target polynucleotide is amplified *in vitro* to produce a multitude of polynucleotide amplification products.

42. The amplification method of claim 41 wherein the amplification is linear or exponential.

43. The amplification method of claim 42 wherein the amplification is exponential.

44. The amplification method of claim 41 wherein the target polynucleotide is amplified with a polymerase and at least one oligonucleotide primer.

45. The amplification method of claim 44 wherein the amplification is linear or exponential.

46. The amplification method of claim 41 wherein the target polynucleotide is amplified with more than one polymerase.

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47. The method for detecting a target polynucleotide of claim 7 wherein the target polynucleotide is amplified *in vitro* to produce a multitude of polynucleotide amplification products.

48. The detection method of claim 47 wherein the amplification is linear or exponential.

49. The detection method of claim 48 wherein the amplification is exponential.

50. The detection method of claim 47 wherein the target polynucleotide is amplified with a polymerase and at least one oligonucleotide primer.

51. The detection method of claim 50 wherein the amplification is linear or exponential.

52. The detection method of claim 47 wherein the target polynucleotide is amplified with more than one polymerase.

53. The method for detecting a target polynucleotide of claim 19 wherein the target polynucleotide is amplified *in vitro* to produce a multitude of polynucleotide amplification products.

54. The detection kit of claim 20 wherein the means for amplifying provide for *in vitro* amplification of the target polynucleotide to produce a multitude of polynucleotide amplification products.

55. The amplification kit of claim 24 wherein the means for amplifying provide for *in vitro* amplification of the target polynucleotide to produce a multitude of polynucleotide amplification products.

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56. The method for amplifying a target polynucleotide of claim 27 wherein the target polynucleotide is amplified *in vitro* to produce a multitude of polynucleotide amplification products.

57. The method for detecting a target polynucleotide of claim 28 wherein the target polynucleotide is amplified *in vitro* to produce a multitude of polynucleotide amplification products.

58. The method for amplifying a target polynucleotide of claim 34 wherein the target polynucleotide is amplified *in vitro* to produce a multitude of polynucleotide amplification products.

59. The method for detecting a target polynucleotide of claim 38 wherein the target polynucleotide is amplified *in vitro* to produce a multitude of polynucleotide amplification products.

REMARKS

In this amendment, the Patent Owner has amended original claim 19 to correct an obvious typographical error. Specifically, original claim 19 recited in step (c) the amplification of the "sample" with DNA polymerase but it should have recited amplification of the "target polynucleotide," as demonstrated by the recitation in steps (d) and (e) of further manipulations of the "amplified target polynucleotide." Thus, the Patent Owner requests entry of this amendment.

In addition, the Patent Owner has added new claims 41-59 (the specifics and support for which are discussed in detail below in the section entitled "Claims of Intermediate Scope") because, as set forth in the accompanying Reissue Declaration, the Patent Owner has recognized

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